

CLAIMS

What is claimed is:

1. A structural beam member which can be assembled to form a frame for an architectural structure, comprising;

5 an extruded elongated load bearing element having a plurality of inner walls arranged to define a cavity;

an elongated reinforcement slat slidably connected to at least one of said plurality of inner walls; at least one elongated projection fixedly connected to said at least one of said plurality of inner walls, said slat connected to said at least one of said plurality of inner walls by said at least one projection.

10 102. The member of claim 1, wherein the beam has a generally rectangular cross-section.

103 ^{82 639} ^{sys extruded abv would be metal or plaster} 3. The member of claim 1, wherein the reinforcement slat is made of metal.

110 104. The member of claim 1, wherein the reinforcement slat defines at least one secondary projection for receiving a secondary reinforcement slat.

115 See fig 2 5. A structural member for making an architectural frame, said structural member comprising:

116 4 an elongated element having a plurality of outer walls;

117 4 at least one of said outer walls defining at least one anchoring member;

118 3 a reinforcement slat adapted to be connected to said anchoring member; said slat defining at

119 9 least one female receptor for receipt of said at least one anchoring member.

120 863746 5,134,250 6. The member of claim 5, wherein said element has a generally rectangular cross- section.

121 103-5 134,250 106 707941 ^{leads refal} 7. The member of claim 6, wherein the reinforcement slat is made of metal.

8. A support member which can be assembled to form a frame for an architectural structure

comprising:

a generally rectangular, hollow, elongated beam;

a reinforcing insert having an elongate length coincident with or less than

the elongate length of the beam;

at least one elongated connecting rail integrally attached to an interior wall of the beam;

an elongated channel defined by the reinforcing member adapted to engage in inter-fitting relation with said rail. — (Inv. No. 100) *Repub. of South Africa*

relation with said rail. (This word refers to the 3rd column)

9. The member of claim 8 wherein said beam has a generally rectangular cross-section.

~~10. The member of claim 8 wherein the rail and channel form a dovetail-like connection in cross-~~

section

11. The member of Claim 10 wherein the reinforcing member is made of metal.

12. The member of Claim 11, wherein the beam is made of metal.

13. A method of reinforcing a support member which can be assembled to form a frame for an structural structure, comprising:

thereto;

providing an extruded hollow beam which has at least one projecting lug integrally connected

thereto:

providing the reinforcing insert defining a recess adapted to mate in inter-fitting engagement with said lug;

*7.10
QW*
connecting the insert to the beam by inter-fitting the lug within the recess, the insert being sized

and positioned relative to the beam in accordance with engineering calculations which determine the

expected distribution of forces along the beam.

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Sb 321* 14. The method of claim 13, further including the step of incorporating a plurality of such beams

5 into an architectural structure.

152 15. The method of claim 13, wherein the reinforcing insert is made of metal.

102 566 0 119 16. An extruded bracing member comprising a rectangular strut having four walls defining an
interior space, each wall meeting at a corner intersection, and a transverse web extending from one corner
intersection to a diagonally opposite corner intersection.

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